

# Implications of Natural Gas Pooling on Natural Gas Infrastructure & Market in India

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# Abstracts

#### **Research Case:**

Domestic natural gas sector continue to disturb market sentiments

Domestic gas pricing still partially announced

Supply disruptions to gas based power sector to enter its 2nd year. Still no hopes of a turn-around in domestic gas supply in the foreseeable future

NELP fields unlikely to contribute incrementally for the next two years

Fresh NELP rounds look a distant dream

Global downfall in crude prices likely to create a downward impact on the domestic gas prices that have been linked to global LNG indices

#### What seems to be changing in the gas sector in India?

Drop in spot LNG prices in India, recently seen at under USD 10/MMBtu

Oil prices may contain the LNG prices, specially the spot and short term LNG prices

Attractive Spot-LNG prices to off-set existing term LNG prices. However, by mid 2017 term prices may also get lighter



Imported LNG risk diversification through natural LNG portfolio expansion

GAIL and other LNG importers in India likely to respond on these attractive prices by way of increasing off-take

Domestic gas price linked to global LNG indices likely to reduce instead of increase the gas price in the next revision

Critical gas consuming segments, especially the installed gas based power sector, are expected to raise their voices towards supply of gas and off-take of power by the discoms

Incumbent government is pro-growth and has been voicing its vision to solve the power crisis and also increase gas pipeline network in the country

Pooling of natural gas is being discussed as the natural way-forward in the present industry context. But why?

Any incremental domestic gas in the next 4 years to go to power sector. Clear objective to increase the PLF of gas based power plants

Trimming of Re-gasification charges and gas pipeline tariff & marketing margin may be seen which may bring volumes

Much more: Customs duty wavier, Scrapping of CST & VAT, Swapping of Gas, etc

#### **Overall Objective**

The report is tailor-made to facilitate decision making. The key objectives of the report are:

To evaluate the impact of price pooling on key gas consuming sectors and their downstream market

To identify the likely drivers & barriers for pooling of gas in India



To identify the key beneficiaries of the pooling of gas price and how these beneficiaries will be positively impacted?

To identify the growth prospects for the overall Gas Sector/Natural Gas Value-Chain in India based on the gas pooling

To discover the most optimum gas pool quantum and price range

To sensitize the stakeholder's on the likely future business prospects emanating from Indian natural gas market, especially in the context of LNG penetration in India.

The research report will also give an insight on the mechanism and implementation of pooling of gas, as well as, its impact on the domestic gas sector.

#### Key Questions Answered:

What necessitates the relook on gas price pooling by the government in the present context?

What will be the outlook of power discoms towards pooling of gas in power sector?

Who will be the key beneficiaries of the pooling of gas price? Who will be at a disadvantage?

How will gas price pooling impact the development of gas transportation and distribution infrastructure in India?

What is the likely overall quantum of gas pool that will be available for different sector?

How will gas price pooling impact the penetration of LNG in India?

What will be the impact of gas pooling on gas based power generation assets in India? The one's having PPA and the one's still waiting to be commissioned



What will be the implications of gas pooling on the existing gas allocations and supply arrangements of the domestic gas?

What will be the impact of pooling on power tariff, CNG & PNG prices, fertilizer prices, etc?

What will be the impact of gas pooling on the future of E&P sector in India?

#### **Report Highlights**

All about Gas Price Pooling

Key Drivers for price pooling option in India

Identifying implications of gas price pool on different end-user segments

Implications on power tariff

Implications on fertilizer prices

Implications on PNG & CNG Prices

Impact of global crude price decline on the prospects of gas pooling

Identifying whether it is the right moment to include gas price pooling in the gas sector?

Impact of gas price pooling on the growth of E&P sector in India

Impact of gas price pooling on LNG penetrations and development of RLNG terminals in India

Impact of gas price pooling on natural gas pipelines, national gas grid, etc in India

Likely opportunities and challenges due to gas price pooling



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Utilization of RLN Terminals Utilization of Gas Pipelines Market penetration & market conversion by CGD & CNG Major Upstream gas projects stuck or waiting to produce Idle & Stranded Gas based Power Plants

# 3. POOLING OF NATURAL GAS: DRIVERS AND ENABLERS

The concept and the objective Issues and Challenges Incentives and Opportunities Whether the timing of introducing pooling finally right? Why Government will push for pooling?

# 4. LATEST UPDATE ON GAS SECTOR DEMAND & GAS MARKET PROFILE

Existing gas consumption by different sectors Existing un-met gas demand Ranking of gas consumer segments based on price appetite Ranking of gas consumer segments based on gas priority principle Ranking of gas consumer segments based on investments locked up Gas demand at different price levels for different end-user segments

# 5. SCENARIO ANALYSIS: INDUCTION OF GAS POOL TO POWER SECTOR

Only those plants with PPA signed ~ 16,000 MW Pooling for all commissioned gas based power plants ~ 21,000 MW

# 6. IMPACT OF POOLING OF GAS ON DIFFERENT END USER SEGMENTS

Impact on PNG & CNG Sector Impact on Power Sector



Impact on Fertilizer Sector Impact on other important sectors: Industry, Steel, Refinery, etc

# 7. IMPACT OF POOLING OF GAS ON DIFFERENT STAKEHOLDERS IN GAS INDUSTRY

Impact on Gas Pipeline Sector in India Impact on RLNG/FSRU Sector in India Impact on PNG & CNG Sector in India Impact on conventional E&P projects in India Impact on marginal gas fields in India

# 8. GAINERS/LOSERS?

What it means for gas industry stakeholders such as: ONGC, OIL, GAIL, BPCL, HPCL, Cairn and RIL What it means for players engaged in RLNG infrastructure/LNG supply in India, such as: Shell, GDF Suez, GSPC, etc What it means for power producers, such as: NTPC, GSECL, ESSAR, GVK, GMR, etc

# 9. HIGH-LEVEL PROSPECTS OF POOLING

To whom it benefits the most To whom it may hit badly What are the risks & gains for the gas infrastructure sector Whether the pooling concept will be able to turn around the gas sector/market in India?

# 10. DISCUSSION ON THE LIKELY INCENTIVES WHICH MAY COME ALONG WITH POOLING OF GAS

Rebate in taxes & duties Rebate in pipeline and marketing tariff Policy intervention in power charges

# **11. CONCLUSION**



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